



AMENDMENTS

In The Claims:

Claims 1.-17. (Canceled)

18. (Amended) A polymeric array comprising:
a plurality of distinct polymers stably associated with the surface of a substrate, wherein said substrate comprises a plurality of individually activatable resistors associated with said surface, and at least one of said polymers is associated with at least one of said resistors and selectively protected from reaction by a protective bubble.

19. (Original) The polymeric array according to Claim 18, wherein said plurality of resistors are beneath said surface of said substrate.

20. (Amended) A nucleic acid array comprising:
a plurality of nucleic acid spots stably associated with the surface of a substrate, wherein said substrate comprises a plurality of individually activatable resistors beneath said surface and at least one of said nucleic acid spots is associated with at least one of said resistors and selectively protected from reaction by a protective bubble.

21. (Withdrawn) A kit for producing a polymeric array, said kit comprising: a substrate having a plurality of activatable resistors; and a deblocking agent.

22. (Withdrawn) The kit according to Claim 21, wherein said kit further comprises a solvent.

23. (Withdrawn) The kit according to Claim 21, wherein said kit further comprises monomeric reagents.

Claims 24. - 27. (Cancelled)

28. (New) The polymeric array according to Claim 18, wherein said polymers are nucleic acids.

29. (New) The polymeric array according to Claim 18, further comprising an electrical current application means associated with said resistors.

30. (New) The polymeric array according to Claim 29, further comprising an electrical current controlling means associated with said electrical current application means.

31. (New) A polymeric array comprising: a plurality of distinct polymers stably associated with the substrate surface, wherein said substrate comprises a plurality of individually activatable resistors associated with said surface and at least one of said polymers is associated with at least one of said resistors,

wherein said polymeric array is produced by a method comprising:

- (a) producing a solvent layer on a substrate surface, where said substrate surface has a plurality of individually activatable resistors associated with it;
- (b) performing at least two iterations of the following steps:
 - (1) selectively protecting at least one site on said substrate surface with a protective bubble by selective activation of said resistors;
 - (2) contacting said selectively protected substrate surface with a reactive agent under conditions sufficient for said reactive agent to react with unprotected susceptible moieties present on said substrate surface; and
 - (3) removing unreacted reactive agent from said substrate surface.

32. (New) The polymeric array according to Claim 31, wherein said polymers are nucleic acids.

33. (N w) The polymeric array according to Claim 31, wherein said plurality of resistors are beneath said surface of said substrate.

34. (New) The polymeric array according to Claim 31, further comprising an electrical current application means associated with said resistors.

35. (New) The polymeric array according to Claim 34, further comprising an electrical current controlling means associated with said electrical current application means.